

Circumference and area of circles

Name Key

Date _____

all measurements are in inches.Complete the following. Use $\frac{22}{7}$ for π .

	radius	diameter	circumference $C = \pi d$	area $A = \pi r^2$
1.	14 in	28 in	$\frac{22}{7} \cdot 28$ 88 in	$\frac{22}{7} \cdot 14^2$ 616 in ²
2.	42	84	$\frac{22}{7} \cdot 84$ 264 in	$\frac{22}{7} \cdot 42^2$ 5544 in ²
3.	$5\frac{1}{4}$	$10\frac{1}{2}$	33 in	$86\frac{5}{8}$ in ²
4.	$6\frac{3}{4}$	$13\frac{1}{2}$	$42\frac{3}{7}$ in	$143\frac{11}{56}$ in ²
5.	$12\frac{3}{5}$	$25\frac{1}{5}$	$79\frac{1}{5}$ in	$498\frac{24}{25}$ in ²

Complete the following. Use 3.14 for π .

	radius	diameter	circumference $C = \pi d$	area $A = \pi r^2$
6.	49 in	98 in	$3.14 \cdot 98$ 307.72 in	$3.14 \cdot 49^2$ 7539.14 in ²
7.	4.2	8.4	26.38 in	55.39 in ²
8.	5.6	11.2	35.17 in	98.47 in ²
9.	8.9	17.8	55.89 in	248.72 in ²
10.	7.6	15.2	47.73 in	181.37 in ²